

**SYSTEM AND METHOD FOR MULTIPLE CHANNEL VIDEO TRANSCODING****ABSTRACT OF THE DISCLOSURE**

A system and a method for manipulating video data received over a media channels is disclosed herein. The method includes using an index table to reference stored video data, including motion vectors, so that they can be efficiently accessed by encoder and decoder portions of a transcoder, where the decoder generates source pixel images, and the encoder generates estimated motion vectors based on the motion vector data stored.

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